

Title (en)

LEAKAGE POWER REDUCTION APPARATUS

Title (de)

VERLUSTLEISTUNGSREDUZIERVORRICHTUNG

Title (fr)

APPAREIL DE RÉDUCTION DE LA PUISSANCE DE FUITE

Publication

**EP 1990925 A2 20081112 (EN)**

Application

**EP 08008552 A 20080507**

Priority

JP 2007122490 A 20070507

Abstract (en)

A circulator extracts a transmission signal sent from a transmitter to antenna via the circulator and a duplexer, reflected by an antenna, and returned via the duplexer to the transmitter side. The amplitude and phase of the extracted signal are adjusted by an amplitude-and-phase adjuster to generate an offset signal having the same amplitude and the opposite phase with respect to a leaking transmission signal included in a signal output from a third terminal of the duplexer when combined by a combiner. The offset signal is combined in the combiner with the leaking transmission signal included in the signal output from the third terminal of the duplexer to suppress the leaking transmission signal.

IPC 8 full level

**H04B 1/40** (2015.01); **H04B 1/52** (2006.01)

CPC (source: EP KR US)

**H04B 1/18** (2013.01 - KR); **H04B 1/50** (2013.01 - KR); **H04B 1/52** (2013.01 - KR); **H04B 1/525** (2013.01 - EP US)

Citation (applicant)

- JP H02151130 A 19900611 - ANTENNA GIKEN KK
- JP H09116459 A 19970502 - FUJITSU LTD

Cited by

EP2618494A4; GB2551346A; GB2551346B; US10644394B2; US10644763B1

Designated contracting state (EPC)

DE GB

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1990925 A2 20081112**; **EP 1990925 A3 20090930**; **EP 1990925 B1 20170809**; CN 101304259 A 20081112; CN 101304259 B 20140129; JP 2008278417 A 20081113; JP 4879083 B2 20120215; KR 101004349 B1 20101228; KR 20080099164 A 20081112; US 2008279122 A1 20081113; US 8086191 B2 20111227

DOCDB simple family (application)

**EP 08008552 A 20080507**; CN 200810088764 A 20080507; JP 2007122490 A 20070507; KR 20080041899 A 20080506; US 11421808 A 20080502